## **CLAIMS**

1. An immature immunodeficient mammal (excluding human), into which human-derived hematopoietic precursor cells or mature hematopoietic cells have been transplanted, and which is able to generate immunocompetent cells derived from said human and/or physiologically active substances derived from said immunocompetent cells.

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- 2. An immunodeficient mammal obtained as a result of the breeding of the immature immunodeficient mammal (excluding human) according to claim 1, or a progeny thereof.
- 3. The mammal according to claim 1 or 2, or a progeny thereof, wherein the immunodeficient mammal is a newborn immunodeficient mammal or a fetal immunodeficient mammal.
- 4. The mammal according to claim 1, or the mammal or a progeny thereof according to claim 2 or 3, wherein the hematopoietic precursor cells are derived from bone marrow, cord blood, or peripheral blood.
  - 5. The mammal according to claim 1, or the mammal or a progeny thereof according to claim 2 or 3, wherein the immunocompetent cells are at least one selected from the group consisting of B cells, T cells, dendritic cells, NK cells, and NKT cells.
- 20 6. The mammal according to claim 1, or the mammal or a progeny thereof according to claim 2 or 3, wherein the physiologically active substance is a cytokine and/or an immunoglobulin.
  - 7. The mammal according to claim 6 or a progeny thereof, wherein the immunoglobulin is any one selected from the group consisting of IgG, IgM, IgA, IgD, and IgE.
  - 8. The mammal according to claim 1, or the mammal or a progeny thereof according to claim 2 or 3, wherein the immunodeficient mammal is an immunodeficient mouse.

9. A method for producing a mammal capable of generating immunocompetent cells derived from a human and/or physiologically active substances derived from said immunocompetent cells, or a progeny thereof, which is characterized in that it comprises transplantation of human-derived hematopoietic precursor cells or mature hematopoietic cells into an immature immunodeficient mammal (excluding said human).

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- 10. The method according to claim 9, wherein the immature immunodeficient mammal is a newborn immunodeficient mammal or a fetal immunodeficient mammal.
- 11. The method according to claim 9, wherein the hematopoietic precursor cells are derived from bone marrow, cord blood, or peripheral blood.
  - 12. The method according to claim 9, wherein the immunocompetent cells are at least one selected from the group consisting of B cells, T cells, dendritic cells, NK cells, and NKT cells.
  - 13. The method according to claim 9, wherein the physiologically active substance is a cytokine and/or an immunoglobulin.
    - 14. The method according to claim 13, wherein the immunoglobulin is any one selected from the group consisting of IgG, IgM, IgA, IgD, and IgE.
    - 15. The method according to claim 9, wherein the immunodeficient mammal is an immunodeficient mouse.
- 20 16. A method for producing a human-derived antibody, which is characterized in that it comprises recovering immunocompetent cells from the mammal according to claim 1, or the mammal or a progeny thereof according to any one of claims 2 to 8, culturing said immunocompetent cells in the presence of an antigen or a stimulator, and collecting said human-derived antibody from the obtained culture product.
- 25 17. The method according to claim 16, wherein the immunocompetent cells are at least one selected from the group consisting of B cells, T cells, dendritic cells, NK cells, and NKT cells.
  - 18. A method for producing a human-derived antibody, which is characterized in

that it comprises immunizing the mammal according to claim 1, or the mammal or a progeny thereof according to any one of claims 2 to 8, with an antigen or a stimulator, and collecting said human-derived antibody from the immunized mammal.

19. The method according to claim 18, wherein the antibody is collected from blood plasma or serum.

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- 20. A disease-model mammal, which is produced by administering to the mammal according to claim 1, or the mammal or a progeny thereof according to any one of claims 2 to 8, any one selected from the group consisting of bacteria, viruses, tumor cells, and tumor antigen peptides, or a progeny thereof.
- 10 21. The mammal according to claim 20 or a progeny thereof, wherein the disease is an infectious disease.
  - 22. A method for screening for an immune-related pharmaceutical, which is characterized in that it comprises administering a test substance to the mammal according to claim 1, or the mammal or a progeny thereof according to any one of claims 2 to 8, 20, and 21, and evaluating the effectiveness of the test substance.
  - 23. The method according to claim 22, wherein the immune-related pharmaceutical is a vaccine.
  - 24. A method for producing immunocompetent cells, which is characterized in that it comprises recovering said immunocompetent cells from the mammal according to claim 1, or the mammal or a progeny thereof according to any one of claims 2 to 8.
  - 25. An immunocompetent cell recovered from the mammal according to claim 1, or the mammal or a progeny thereof according to any one of claims 2 to 8.
  - 26. A vaccine comprising the immunocompetent cell according to claim 25.
- 27. A method for producing immunocompetent cells, which is characterized in that it comprises recovering said immunocompetent cells from the mammal according to claim 20 or a progeny thereof.
  - 28. An immunocompetent cell recovered from the mammal according to claim 20 or a progeny thereof.

- 29. A vaccine comprising the immunocompetent cell according to claim 28.
- 30. A human-derived antibody recovered from the mammal according to claim 1, or the mammal or a progeny thereof according to any one of claims 2 to 8.
- 31. A human-derived antibody collected from a culture product obtained by culturing the immunocompetent cell according to claim 25 or 28 in the presence of an antigen or a stimulator.
  - 32. A human-derived antibody recovered from the mammal according to claim 20 or a progeny thereof.
  - 33. A vaccine comprising the human-derived antibody according to claim 32.